Practicing in Sunny France for the Mastery of the Skies.

HOW MR. FARMAN, WHO KNEW NOTHING OF MOTOR-AEROPLANES, ORDERED ONE READY MADE, LEARNED TO FLY AND BROKE ALL EUROPEAN RECORDS.

Ignorant of Aeronautics, He and descended to earth without harm.

As a fact, they delivered him his motor-Astonishes France by Becoming an Expert in Short Order.

Special Correspondence of The Star. PARIS, November 8, 1907. LYING is now an open secret. Any one will fly within a trade.

few months!" of the Palais de l'Automobile. He is the neck Paris sport who has flown oftenest, swift-est and longest both in time and dis-est and longest both in time and disest and longest, both in time and distance; he is the second to have made a curve while flying; he flies daily, always beating his own records and all others; and, before these lines are printed. he may easily have done the "closed kilometer" of the Deutsch-Archdeacon prize, conditioned to proclaim the scientific success of a true flying machine.

who, knowing nothing of these motor aeroplanes, ordered one ready made and simply began learning how to fly in it. He is no flying machine inventor. He has made none of the disheartening experiments with forms of planes, with gearings, propellers, motors, rudders, centers of pressure, centers of gravity and all the rest that have kept Santos-Dumont, Ernest Archdeacon, Louis Bleriot,

Gabriel Voisin, Capt. Ferber, Henry Kapferer, Louis Vuia and Robert Esnault-

Henry Farman is also the Paris sport

Pelterie busy on the ground. Henry Farman is different from an inventing gilded youth like Santos; different even from those strangely modern Paris business men who find both taste and time to be hard sports. Born of English parentage in Paris he, with his two brothers, Maurice and Richard, grew up in the automobile trade from the beginning, became road racers of renown and entered the rich retail trade at the right moment. Business has not prevented him from giving much time, not only to spherical ballooning, but to astronomy-which is a hobby with him; and at once utterly practical and completely a dreamer, man of commerce and disinterested technician, he also saw the right moment to begin to fly-and lost no time in useless preliminaries. It was at the moment when the Dela-grange motor-aeroplane, built by the first flying machine factory in the world had flown with a man 200 feet in a straight

Delagrange, the Paris sculptor, had ordered it from Bleriot & Voisin, building for the general public at the Surcouf plant, near Billancourt, outside Paris. Delagrange may have had his ideas about its form and disposition; but the Voisin brothers had enjayed immense experience. brothers had enjoyed immense experience with motorless aeroplanes towed over Lake Geneva by Ernest Archdeacan's 100-horsepower motor boat and later on in motor-aeroplanes that scarcely worked, with Louis Bleriot, a studious gilded youth, possessing a big block of motor stock.

Learning the Bird's Trade.

For Delagrange they built a motoraeroplane that actually flew in a straight line, on March 30, 1907, over the famous grounds of Bagatelle in the Paris Bois It was not so long a flight as Santos-Dumont had accomplished in November previous, but it was the flight of a That same day, therefore, Henry Farma made a contract with Bleriot & Voisin. The contract stipulated they deliver him

So speaks Henry Farman

amuses himself by learning the bird's

There you have the situation. A flying machine-improved on the model of one that has flown short distances-is ordered to his brothers and intimates by and delivered to a road-racing, break-neck automobile sport, with a dreamy

QUAPTER

a kilometer and a half in a closed loop and descended to earth without harm.

As a fact, they delivered him his motoraeroplane in less than six months; and it is the series of trials to fulfill the last is reporting to you almost daily at the present moment. This explains who more interested in its winting the interested in a business way, than is the sport who all susiness way, than is the sport who all susiness himself by learning the bright angle. When any own descended to earth without harm.

As a fact, they delivered him his motoraero aeroplane in less than six months; and they disance. This is what the motoraero-plane should do once it is high enough do once it is high enough do once it is high enough do once it is not the air. The machine rushed a gainst the practically lifts or lowers—what? Why, he is the series of trials to fulfill the last is the series of trials to fulfill the the wind dies down, however, every boy and more such plane surfaces behind him knows that he must run with his kite, -just to give a total surface for the wind pulling it against the still air.
This is what the motor-aeroplane does—

to push up—as compact, strong and untip-ping as possible—on condition that the it must skim onward always or it will begin to fall. If you imagine a boy running with his kite on a still day you will have the conception—very much, at least Why must the boy rotting the still be a specific to the front of his whole management. least. Why must the boy continue run- chine at the right moment. He tried it

"Come down!" cried the Voisins. Henry Farman saw as well as they that he must come down instantly; there was a fence ahead and buildings on beyond. He lowered the vertical rudder. The wind no longer caught the onward-rushing planes at an up-pushing angle, and down came the apparatus by its weight, diagonally, like a hawk skimming downward.

dipped, and rose and dipped, but always dipped, and rose and dipped, but always dipping more than it would rise, until at forward, which would lower the head of the struck the earth. The line was

would get up proper speed on earth, then lift the machine's head. The air would get beneath the on-rushing planes, and

only they recover and mount up again more promptly after each dip. Farman

it was extraordinary to see the machine



HENRY FARMAN

rudder.
The vertical rudder—it is the secret of the motor-aeroplane.
You understand what a motor-aeroplane

the skies?

in the history of the future.

man, but not American.

America is used to leading, and Ameri-

cans are not comfortable in the rear

rank of any procession, so it did not take

a resolution urging upon Congress the im-

portance of providing funds for an aerial

of Gen. Allen, who said that ..e thought

the next session to maintain an aero-

So the matter will come right before

Congress, and while every effort to in-

crease the strength of the naval or mili-

tary establishment of the country raises

more or less opposition, it is believed

of the plan argue, involves the prestige

of the nation. Senators and representa-

tives are to be appealed to upon pa-

triotic grounds, and the scream of the

eagle will doubtless echo through the

In France and Germany.

Over in France there are a couple of

dirigible airships which have been tested

officially and found to operate nearly per-

fectly. "La Patrie" and "Ville de Paris,"

and other enthusiasts working and en-

couraging work on the aerial problem,

and alded by the government, the de-

velopment of the airship has moved

more swiftly in France than with any

kaiser himself, is an enthusiast on

other European power.

halls at Washington next month.

nautic branch in the army.

PROPELLOR

as it moves on.

And this brings us to the all-important

vertical rudder. You can see it plainly in all the photographs—the box-like thing projecting in front of the machine. Its ratus, rolling on its little wheels, at a projecting in front of the machine. Its ratus, rolling on its little wheels, at a ratus, rolling on its little wheels.

machine that could be duplicated for cash, on an order, in straightforward business manner, without asking favors. That same day, therefore, Henry Farman of its all-important vertical made a contract with Bleriot & Voisin as it moves on.

And the first thing Henry Farman does thing as making wind pass beneath it, backward, and keep pushing it upward as it moves on.

The machine that could be duplicated for cash, on an order, in straightforward is to sit in the machine quietly, before thing as making wind pass beneath it, backward, and keep pushing it upward as it moves on.

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THE

mount on up diagonally like Elijah's chariot; only why did he not go on up, aney took it to a far greater field—the up. up?

First, there was caution not to go too

would give a tip that must be compensated, or the motor would give less force, slowing the attack upon the air. And so on. Each such accident would cause a downward dip.

He would lift the machine's head in-

stantly, and the rise would follow the dip; and, day by day, the upward curve would more and more begin to equal the down curve, until on Saturday, October 26, 1907, in presence of the official timekeepers of the Aero Club de France, he flew in a straignt line 350 yards and then 403 yards. This latter was the straight-across limit of the Issy maneuver grounds

across limit of the Issy maneuver grounds—making allowance for the necessary space to get up speed upon the ground.

"I'll try it diagonally," called Farman, and, starting from one corner, new a straight 780 yards to the far corner at the other side—and could have kept on, easily, a kilometer, two, three—who knows? A hundred witnesses affirm it.

There are photographs snapshotted as There are photographs, snap-shotted as he came down. They show that he came down by a willful downward maneuver of his vertical rudder.
"I have got the trick of straightahead flying," he said that night to his admirers at the Palais de l'Automobile.
"Now I'll attack turning!"

At this writing he has turned again

At this writing he has turned again and again from the straight line by a quarter of a circle. Several times he has come down and slightly damaged the meahing. the machine, and there are scientists on paper, mostly from the Polytechnique, who explain why turning with one screw-propeller will be quite impossible.

Practice or Theory.

Do you know what they call the gyroscope? It is a scientific toy-a round top that, by its rapid revolutions, gets peculiar immobility. On the point of a pencil it maintains itself straight. Give it a push over and it comes back. To change its plane of rotation requires a comparative effort.

Now, they say, the single screw-propeller of the Farman aeroplane, revolving at 1,500 turns, becomes a gigantic gyroscope. Going straight ahead is all right. But when Farman tries to turn it opposes that pig-headed resistance, compromising longitudinal equilibrium. That is whiy the apparatus jumps suddenly into the air when he tries to turn to the right-and dives when he attempts to turn to the

"I know nothing about gyroscopes," says Henry Farman, "and I can already turn a quarter circle."

turn a quarter circle.
"Have two propellers, revolving in oppo site directions, and the difficulty will be obviated," says the Polytechnique school.

"Let's wait and see," says Farman.
"We will see you go skidding!" says
the Polytechnique. "When you shift
your horizontal rudder you will turn
your quarter circle all right, but during
the next moment the acquired speed will oppose itself to your change of direction— and you will skid like an automobile that has turned too short on a slippery road. Slippery roads are nothing in comparison with the slippery air!

"We see but one possible way out of the difficulty," conclude the mathematicians. "You will have suddenly to the inside curve—like a bicycle racer round-ing a tilted track. Birds do it when they want to turn. They do not depend on their tails for horizontal rudders. They

TEN MENUS, DECORATIONS AND

SUITABLE GAMES.

a motor-aeroplane within a year. Be-

fore payment be made it must have done

The tin wedding that ma. s the tenth anniversary may be made a very brilliant affair and one provocative of much fun. The invitations sent out may be of little squares of sheet tin, the wording being Uncle Sam from a nap into which he had made with paint or a sharp-pointed in- fallen. strument. These may be inclosed in envelopes to fit. For the buffet luncheon York only the other day and heard have a large table set entirely with tin speeches from a number of men who and suitably decorated. On the buffet know something of diplomacy, who read have the tin plates, tin cups, knives, forks the signs of the times and who, above all, and spoons for the different courses. The are patriots. These men-Rear Admiral guests may stand or sit in the dining C. N. Chester, U. S. N., and Gen. Allen,

Leave the buffet table bare excepting note of warning which found immediate for doilies made from tinfoil or silver answer in a recommendation to Congress, paper, or put on a white cloth with deco- and which has echoed through the counrations of tinfoil. The centerpiece may try. be a jelly mold holding at this season any of the wild flowers, such as golden showed just how America had failed to rod and asters or queen's lace with bay- realize the significance of what her rivals berry sprigs. On either side of the cen-terpiece have four tin candlesticks, using candles of a color to fit in with the central decorations. Have shades covered with

For serving plates, pie and layer cake tins should be used. Slender tin mugs for tumblers, individual gem pans for salad, and tin trays for sandwiches and

If you wish to carry out further the tin the refreshments may all be tinned, and here again is a bountiful supply to There are baked beans in tin cans or baked in individual tin molds, tinned meats for the sandwiches, tinned ouillon, tinned biscuit and wafers, tinned fish of various kinds, cheese and bonbons

The menu might be something like this: the convention of aeronauts long to pass Bouillon or consomme served in tin cups, lobster or salmon creamed in little dishes with sandwiches, jellied chicken or chick-

en croquettes with rolls, and ice with cake, then coffee.

For games you can play the children's old-fashioned game of "Spin the Platter," or "Tin! Tin!" Furnish each guest with some musical instrument of tin, appoint a leader and have an impromptu presentation of some popular opera or simply a collection of popular songs. Among the tin instruments suited to the tin orchestra are trumpets, harmonicas, jews-harps, cymbals, horns, a comb and a tin pan for a drum. This in case you have leni-ent neighbors or are a suburbanite with hesitate over a matter which, advocates

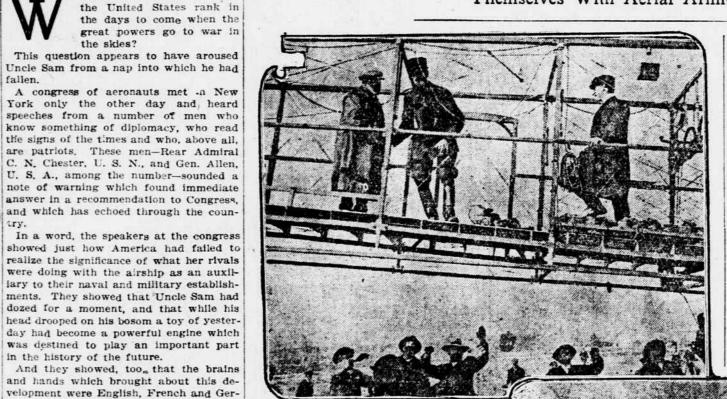
In decorating the house use tin pails, pans, quart cups, steamers, etc., for holding flowers and vines. Get from some tinner the wavy trimmings of tin and hang from the chandeller down, inter-spersed with vines. If your guests are expected to bring with them tin gifts. the favor to uneven lengths of yellow and green baby ribbon fastened to a doorway or the chandelier in the parlor, where they will keep up a merry jingle.

How the Japs Pull Teeth.

The Japanese dentist does not frighten two steerable balloons, have been mahis patient with an array of steel instru- neuvering successfully for some time, ments. All his operations in tooth draw- and only recently Premier Clemenceau ing are performed by the forefinger and and Gen. Picquart took a voyage in "La thumb of one hand. The skill necessary Patrie," which served to indicate how to do this is acquired only after long prac- seriously official France viewed the airtice, but when once it is obtained the operator is able to extract half a dozen mont, M. Deutsch, Count de la Vaulx teeth in about thirty seconds, without once removing his fingers from the pa-tient's mouth, says Home Notes. The dentist's education commences with the pulling out of pegs which have been pressed into soft wood; it ends with the drawing of hard pegs which have been driven into an oak plank with a mallet.

TENTH ANNIVERSARY WHERE WILL AMERICA BE WHEN OTHER POWERS BUILD WINGED FLEETS? TO PROTECT THE EARS

Uncle Sam Begins to Realize That France, Germany and England Are Providing nautics is needed far more than a construction department, inasmuch as the HERE will the aerial navy of Themselves With Aerial Armies.



ON BOARD THE VILLE DE PARIS, A SUCCESSFUL FRENCH ARMY AIRSHIP.

fleet. They chered loudly at a statement lent his aid to every move which had for its object the development of a practical Secretary Taft would ask for \$200,000 at dirigible balloon. As a result Count Zeppelin has produced an airship which recently made the remarkable record of remaining aloft seven hours, during which it was under complete control.

Another army airship is making daily flights over Berlin, and recently it circled about the kaiser's palace in the face of a heavy wind, fully 1,800 feet above the ground. This balloon is fitted with a screw and vanes which drive the ship forward at the rate of 45 feet a second. The motor is run by gasoline, which is kept in a receptacle in the framework above the car. There are two small balloons holding compressed air inside the great envelope, and by filling or emptying these the airship is raised or lowered without affecting the main gas bag.

John Bull in the Ring. England has been the latest power to

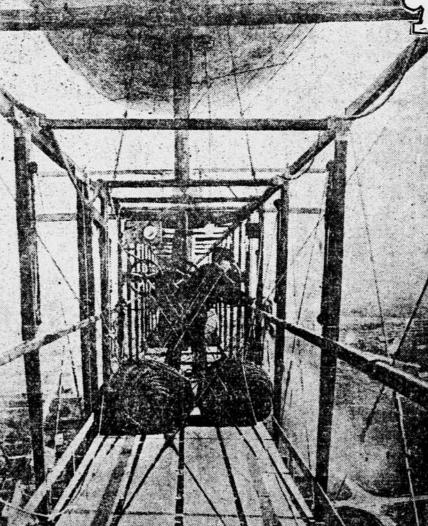
join the aerial fleet movement. A few days ago she launched her first war airship at Farnborough, and the flight was a complete success. The British balloon is a cigar-shaped affair, 100 feet long, and is fitted with a more complicated set of sails and vanes than the French and German machines. It was made at the Aldershot balloon factory, but the details of its construction have been very carefully guarded. Meanwhile war experts, artists and

seers have vied with one another in depicting the battle of the future, a terrible Germany, too, has been very busy. struggle in the air between the winged neets of contending powers. The war per acre than those of any other country. the subject of aeronautics, and he has balloon has been designated as an instrument for dropping high explosives from tion will entail a tremendous risk to the the clouds upon cities and camps of an lives of the men who sail it, unless some enemy, and for serving a belligerent as a means of scouting and observation. The 'heavier-than-air' aeroplane-the cloud ship which depends upon its forward velocity to maintain its position alofthas been depicted anthe armored cruiser of the sky on which the great guns will be mounted and from which torpedoes and shells will be hurled.

Call for Federal Aid.

But through it all Uncle Sam seems to have slumbered until the congress of their abodes, and in suburbia house namaeronauts woke him up, by calling for ing is occasionally rather ludicrous. Thus, federal aid. American inventors have experimented with both kinds of airships, most notably the Wright brotthers, whose aeroplane has performed some remarka- villa residence, and houses named after ble feats, but up to date the government has declined to recognize the importance of federal encouragement. Indeed, it is reported from time to time that the Wrights are negotiating with a foreign power for the sale of their inven-

An experimental department of aero-



OF FRENCH. TAKEN FROM DECK

AIRSHIP "LIYING HIGH ABOVE" PARIS

present-day airship, with all its startling feats, is far from perfection. While it will undoubtedly play a most important part in the battles of the future, its operasafety device now unknown is developed. With this thought in mind, the powers across the sea are straining every nerve

in aerial experiments. Will America ignore a sign of the times so vital in its bearing upon the country's future prestige?

Houses and Their Names.

House owners are sometimes rather unfortunate in their selection of names for "The Maples" have never a maple near, "The Rosary" only exists in the imagina-

the English lakes no more suggest the lake district than Fleet street suggests the Bois de Boulogne.

The Anglo-Saxon word "hyrst," signifying a forest or wood, has become "hurst" in house naming, and "wood" and "nolt" have the same meaning; all house names ending with these terminations are pretty

tion, "Sunnyside" is the most depressing

and not unsafe to choose.

It is curious to note that in Hastings and St. Leonards quite a number of houses have typically Saxon names, perhaps to commemorate the great Saxon tragedy of which the name of Hastings is reminis-

cent, says Woman's Life. A curious custom in parts of America is to call a house by its owner's Christian name transposed, thus in Quebec an old residence is locally known as "Darnoc and in other districts may be found "Senga," "Aidyl" and "Trebor," and some times a combination of two names is used, one favorite being "Lillemyn"—a fanciful union of the names of Lillian and Minnie.

Drop Earrings Worn Again. The fancy for the old-fashioned long

drop earrings is more than a fad; it has become an actual fact, and is put into practice for street as well as for evening obstruction, but if it is not, one should wear. A stunning looking blond wore a lovely pair of these ornaments in jet, such a fitting finish to her handsome toilet. Stones lightly set with gold are pre-ferred to those entirely gold-turquoise, coral and amethysts being generally fa-vored. Drop pearls are also used, and those who have the screw earrings are having the drops added. This can be done with any kind of screw earrings, the drops being selected to match if desired.

First Pocket Handkerchief.

The pocket handkerchief was not in vogue until 1540, when a beautiful Venetian lady appeared carrying one, and from this time it became common use in Italy. The French were quick to follow the fashion, and pocket handkerchiefs were made of costly materials and richly embroidered. They were brought to England from France, says Home Notes, but Germany was slow to adopt their use, and when at last the pocket handkerchief was introduced it represented the great wealth and noble lineage of its possessors.

Italy's Future King.

Prince Umberto of Piedmont, the heir to the Italian throne, who is now three years old, is a strong, sturdy boy, brought up by English methods, going barefooted when at the seaside and wearing sandais in Rome, says Home Notes. He already chatters in Italian and knows a little

Ear troubles are frequent in cold weather. They develop largely through the action of cold upon wax in the auditory canal, and the proper care of this becomes a matter of importance. To remove too much of the wax means to run

WINTER.

danger of injuring the hearing; to let too much remain is neither cleanly nor wise. The safe manner of cleaning should be understood by every person, for the ear is one of the most delicate organs we have, and the risk of doing permanent damage is ever present.

According to one of the best known aurists in New York, the safest method of daily cleaning is to put a bit of old thin linen, such as a handkerchief, over the tip of the little finger and insert this into the orifice. The cloth should not go deeper than the finger tips can reach. In this way there will be no chance of hurting the hearing. While this is undoubtedly a safe, scien-

tific way, the average woman will find a hairpin more to her liking. Under no circumstances should a stick or other pointed implement be used, but the loop at the end of a hairpin prevents its doing harm unless it is thrust in so hard as to cause pain. One is not likely to do this. To wash the interior wet a bit of linen and rub on some soap, then wrap this with one thickness only about the pin loop and put it gently into the ear. The cloth may be turned slowly and then at once removed and a fresh part

taken to repeat the operation. Rinse by wetting the cloth another time in warm Cold water should never be used in cleaning the ears. It will tend to harden the wax, and once this happens deafness

though only temporary, will usually en-Warm glycerin is the greatest ald when there is trouble caused by accumulated and hard wax. In using this put a few drops into the ear at night and rest the head so that the lotion will not run out.

go immediately to a physician to have the canal cleaned. Violent blowing of the nose is a source of danger to the ears, and not infrequently causes temporary deafness by closing the auditory canal. On the other hand, sometimes the ears may be cleared when temporarily stopped by holding the nos-trils closed with the fingers and then

making an effort to blow. The air, making its escape, finds no outlet through the nose, and so rushes to the ears, thus often clearing the passage.

If one effort in this direction, however, accomplishes nothing, it should not be tried again. for the risk of doing harm

to the ear drum becomes too great. A Charming Chinese.

The style of a Chinese lady's dress apparently never alters, but if she can afford to do so she wears nothing but silk. The first garment that she dons is a sort of apron, a plain pièce of silk which is tied round the waist and overlaps behind. Then comes underjacket and overjacket, trousers and apron. In cold weather extra jackets, thickly wadded, are dopned, says Home Notes.

If the fair Chinese is going to receive

friends, or for any other reason wishes to appear specially charming, she paints her face with a paste made of rice flour, which dries and gives her a most cadaverous appearance.

A white monkey, the first albino of its languages he understands English the captured in the bush by a resident of Port better.

Elizabeth.—Home Notes. o kind seen in South Africa, has lately been